

INDIVIDUAL TRAINING STANDARDS

1. General. This enclosure contains all of the ITSs for this OccFld, grouped by MOS. Each MOS is contained in a separate Appendix to Enclosure (6).

2. Format. For each ITS, the following elements of information are provided:

a. TASK. The task describes a specific and necessary behavior expected of a Marine in a particular MOS or billet. It is a clearly stated, performance-oriented action requiring a learned skill. Skills that "make" a Marine or qualify that Marine for the appropriate MOS are designated as "Core." Those advanced skills that are mission, grade, or billet specific are designated as "Core Plus."

b. CONDITION(S). This portion of the ITS describes the equipment, manuals, assistance/supervision, special physical demands, environmental conditions, and location affecting a Marine's performance of the task under real-world circumstances.

c. STANDARD(S). This portion of the ITS describes the level of proficiency to which the individual must perform the task.

d. PERFORMANCE STEPS. Collectively, the performance steps represent the logical sequence of actions required of the Marine to perform the task to standard. These actions are typically detailed in the references.

e. INITIAL TRAINING SETTING. All ITSs are assigned an initial training setting that includes a specific location for initial instruction [Functional Learning Center (FLC) or Managed On-The-Job Training (MOJT)], a sustainment factor (number of months between evaluation or retraining to maintain the proficiency required by the standard), and a "Required By" grade (the lowest grade at which task proficiency is required).

f. REFERENCE(S). References are doctrinal publications, technical manuals, and other publications upon which the ITS and its performance steps are based. They should be readily available and provide detail to the procedures that are only summarized in the performance steps.

g. TRAINING MATERIEL (Optional). Training materiel includes all training devices, simulators, aids, equipment, and materials [except ammunition, distance learning (DL) products, and performance support tools (PST)] required or recommended to properly train the task under the specified conditions and to the specified standard. Mandatory items are preceded by an asterisk(\*)

h. AMMUNITION (Optional). This table, if present, depicts the ammunition, explosives, and/or pyrotechnics required for proper training of the ITS.

i. DISTANCE LEARNING PRODUCT(S) (Optional). This section includes a list of any currently available or planned DL products designed to provide training related to this task.

j. PERFORMANCE SUPPORT TOOL(S) (Optional). This section includes a list of any currently available or planned PSTs designed to provide training related to this task.

k. ADMINISTRATIVE INSTRUCTIONS (Optional). Administrative instructions provide the trainer/instructor with special required or recommended circumstances, including safety precautions, relating to the training or execution of the task. These instructions may also clarify the meaning of the task.

MOS 0621, FIELD RADIO OPERATOR

DUTY AREA 01 - PLANNING

For a complete MOS 0621 task list, add appropriate grade-level tasks from MOS 0600, BASIC COMMUNICATION INFORMATION SYSTEMS MARINE to the following tasks.

DUTY AREA 02 - OPERATIONS

TASK: 0621.02.01 (CORE) OPERATE RADIO NET

CONDITION(S): Provided an operational transmission system, planning documents, and references.

STANDARD(S): To provide reliable and secure communication, per the references.

PERFORMANCE STEPS:

1. Use callsigns and/or prowords.
2. Use Q and Z signals, as required.
3. Use authentication procedures, as required.
4. Use opcode, as required.
5. Use nucode, as required.
6. Keep transmissions as short as possible.
7. Use radio circuit logs.
8. Employ preventive Electronic Protection (EP) techniques.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: Pvt

REFERENCE(S):

1. Applicable Technical Publications/Manuals
2. ACP-125, Communications Instruction for Radio Telephone Procedures
3. ACP-131, Communications Instruction - Operating Procedures

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TASK: 0621.02.02 (CORE) TROUBLESHOOT FAULTY RADIO

CONDITION(S): Provided a radio which fails to operate and references.

STANDARD(S): To determine cause for radio failure and return radio to operational status, if possible, per the references.

PERFORMANCE STEPS:

1. Adhere to all safety procedures.
2. Check the power source(battery or Alternating Current (AC)).
3. Check the frequency.
4. Check key setting (if not operating secure).
5. Check all wire/cable connections.

6. Check antenna connection
7. Inform supervisor of unresolved problem.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: Pvt

REFERENCE(S):

1. Applicable Technical Publications/Manuals
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TASK: 0621.02.03 (CORE) OPERATE AN/PSN-11 (GPS/PLGR)

CONDITION(S): Provided a AN/PSN-11, COMSEC, and references.

STANDARD(S): To provide reliable and secure communication, per the reference.

PERFORMANCE STEPS:

1. Access satellites.
2. Obtain time/almanac.
3. Obtain location.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: Pvt

REFERENCE(S):

1. TM 09880A-10, AN/PSN-11 (PLGR)

TRAINING MATERIEL:

1. \* AN/PSN-11

ADMINISTRATIVE INSTRUCTIONS:

1. Ensure no obstructions block the signal of the satellite from the antenna.
  2. Ensure the valid cryptographic key is obtained.
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TASK: 0621.02.04 (CORE) OPERATE AN/CYZ-10

CONDITION(S): Provided planning documents, equipment, and references.

STANDARD(S): To enable secure communication, per the references.

PERFORMANCE STEPS:

1. Program the Crypto Ignition Key (CIK) (user/supervisor).
2. Load E-sets.
3. Load a Load set.

4. Transfer data.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: Pvt

REFERENCE(S):

1. Applicable Technical Publications/Manuals
2. CMS-1\_, COMSEC Material System Policy & Procedures Manual
3. NAG-16, Field Generation and Over-the-Air Distribution of COMSEC KEY in Support of Tactical Ops and Exercises

TRAINING MATERIEL:

1. AN/CYZ-10 Digital Transfer Device
2. KIV-19
3. KIV-7
4. KY-68
5. KY-99
6. TSEC/KG-84A General Purpose Encryption Equipment
7. TSEC/KG-94/94A/194/194A Trunk Encyption Device
8. TSEC/KY-57 Speech Security Equipment (VINSON)

ADMINISTRATIVE INSTRUCTIONS: Operate CYZ-10 with the following equipment:

- a. TSEC/KG-84.
- b. TSEC/KG-194.
- c. TSEC/KY-57.
- d. KIV-7.
- e. KIV-19.
- f. KY-99.
- g. KY-68.

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TASK: 0621.02.05 (CORE PLUS) OPERATE SINGLE CHANNEL SATELLITE AN/MRC

CONDITION(S): Provided an installed Single Channel Satellite AN/MRC, callsigns, and references.

STANDARD(S): To provide reliable and secure communication, per the references.

PERFORMANCE STEPS:

1. Operate in Line-Of-Sight (LOS) mode.
2. Operate in satellite mode.
3. Conduct operational checks.
4. Establish communication on the net.
5. Troubleshoot problems.
6. Perform operator level preventive maintenance.

INITIAL TRAINING SETTING: MOJT Sustainment: 12 Req By: Pvt

REFERENCE(S):

1. TM 09120A-14/1, MRC Radio Set AN/MRC-140
2. TM 2320-10/6A, Truck Utility 1/4 Ton 4X4
3. TM 5895-10/1, Rad Set AN/PSC-3

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TASK: 0621.02.06 (CORE PLUS) MAINTAIN CIRCUIT LOGS

CONDITION(S): Provided a blank circuit log, an assigned station on a transmission system, and references.

STANDARD(S): To reflect a complete and continuous record of all transmitted and received traffic, per the references.

PERFORMANCE STEPS:

1. Print full name and grade upon opening a new circuit log, starting a new day's log, or upon assuming the watch.
2. Record all transmissions heard regardless of source or completeness.
3. Record time of opening the station.
4. Record time of closing the station.
5. Record causes of delay to the circuit.
6. Record frequency adjustments and changes.
7. Record unusual occurrences, such as procedure and security violations.
8. Enter only the message heading up to the first break (BT) in the log when receiving or relaying a message. Record entire message on a message blank to include TOR and TOD.

9. Make changes by drawing a single line through the original entry and initializing the change. DO NOT ERASE!

10. Sign the log upon relief of the watch or upon closing the circuit.

INITIAL TRAINING SETTING: MOJT Sustainment: 12 Req By: Pvt

REFERENCE(S):

1. ACP-125, Communications Instruction for Radio Telephone Procedures
2. ACP-131, Communications Instruction - Operating Procedures

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TASK: 0621.02.07 (CORE PLUS) OPERATE AN/PPN-19 RADAR BEACON

CONDITION(S): Provided an AN/PPN-19 and references.

STANDARD(S): To ensure reliable signal, per the references.

PERFORMANCE STEPS:

1. Install battery.
2. Attach antenna.
3. Apply power.
4. Conduct operational check.
5. Troubleshoot problems.
6. Perform operator level preventive maintenance.

INITIAL TRAINING SETTING: MOJT Sustainment: 12 Req By: Pvt

REFERENCE(S):

1. Applicable Technical Publications/Manuals
2. TM 5840-12/1, Transponder Set, AN/PPN-19(V)1

TRAINING MATERIEL:

1. \* AN/PPN-19 Radar Transponder Beacon
2. \* Batteries, as applicable

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TASK: 0621.02.08 (CORE PLUS) OPERATE TSEC/KYX-15A NET CONTROL DEVICE

CONDITION(S): Provided a TSEC/KYX-15A, transmission system, and references.

STANDARD(S): To provide reliable net control, per the references.

PERFORMANCE STEPS:

1. Perform Variable Generated (VG) operation.
2. Perform Automatic Rekey (AK) operation.
3. Perform Manual Rekey (MK) net controller to subscriber operation.
4. Perform MK net controller to alternate net controller operation.
5. Perform operator level preventive maintenance.

INITIAL TRAINING SETTING: MOJT Sustainment: 12 Req By: Pvt

REFERENCE(S):

1. Applicable Technical Publications/Manuals
2. TM 11-5810-292-13, Comm Security Equip KOI-18/TSEC

TRAINING MATERIEL:

1. TSEC/KYX-15A

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TASK: 0621.02.09 (CORE PLUS) OPERATE TSEC/KY-99 COMMUNICATIONS SECURITY EQUIPMENT

CONDITION(S): Provided a TSEC/KY-99 connected to designated transmission system and reference.

STANDARD(S): To provide reliable and secure communication, per the reference.

PERFORMANCE STEPS:

1. Establish communications on the net.
2. Troubleshoot problems.
3. Perform operator level preventive maintenance.
4. Provide security.

INITIAL TRAINING SETTING: MOJT Sustainment: 12 Req By: Pvt

REFERENCE(S):

1. LMM-9, Limited Maintenance Manual, TSEC/KY-99

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TASK: 0621.02.10 (CORE PLUS) OPERATE INTERNATIONAL MARITIME SATELLITE (INMARSAT) TERMINAL

CONDITION(S): Provided an operational INMARSAT terminal, air time, and references.

STANDARD(S): To provide reliable and secure communication, per the references.



PERFORMANCE STEPS:

1. Coordinate access.
2. Set-up INMARSAT.
3. Site antenna.
4. Apply power.
5. Conduct operation check.
6. Troubleshoot, as required.

INITIAL TRAINING SETTING: MOJT Sustainment: 12 Req By: Cpl

REFERENCE(S):

1. Applicable Technical Publications/Manuals

TRAINING MATERIEL:

1. INMARSAT Terminal
2. Power Source, as applicable

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TASK: 0621.02.11 (CORE PLUS) ESTABLISH ELECTRONIC PROTECTION (EP)

CONDITION(S): Provided a tactical situation, a communication system, Enemy Electronic Warfare (EW) activity, and references.

STANDARD(S): To enable the protection of friendly communications against hostile Communication Countermeasures, per the references.

PERFORMANCE STEPS:

1. Identify jamming/interference.
2. Report jamming/interference incidents.
3. Employ alternate means of communications.

INITIAL TRAINING SETTING: MOJT Sustainment: 12 Req By: Pvt

REFERENCE(S):

1. Applicable Technical Publications/Manuals
2. FM 24-18, Tactical Single Channel Radio Communications Techniques
3. MCWP 6-22, Communication and Information Systems

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TASK: 0621.02.12 (CORE) OPERATE A VHF VEHICLE MOUNTED RADIO

CONDITION(S): Provided a vehicle, radio, fill (contained in fill device), frequency, required data, and references.

STANDARD(S): Per the references.

PERFORMANCE STEPS:

1. Adhere to all safety precautions.
2. Place the radio into the mount.
3. Connect cable.
4. Install antenna.
5. Start vehicle.
6. Apply power to radio.
7. Load frequency and/or hop set data.
8. Select proper position for all switches.
9. Conduct operational check.
10. Repeat step 1-6 if the setup includes two radios.
11. Conduct retrans, as required.
12. Establish communication on the net.
13. Troubleshoot any problems.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: Pvt

REFERENCE(S):

1. Applicable Technical Publications/Manuals
2. TM 11-5820-890-10-1, Operator Manual for SINCGARS Ground Combat Net Radio
3. TM 11-5820-890-10-2, SINCGARS ICOM Ground Radio
4. TM 2320-10/6A, Truck Utility 1/4 Ton 4X4
5. TM 5820-498-12, SINCGARS Operator Level Maintenance Manual

TRAINING MATERIEL:

1. AN/CYZ-10 Digital Transfer Device
2. AN/MRC-145 Radio Set
3. AN/VRC-83
4. AN/VRC-88A Radio Set (SINCGARS)

5. AN/VRC-89A Radio Set (SINGARS)
  6. AN/VRC-90A Radio Set (SINGARS)
  7. AN/VRC-92A Radio Set (SINGARS)
  8. \* Vehicle
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TASK: 0621.02.13 (CORE) OPERATE A VHF PORTABLE RADIO SYSTEM

CONDITION(S): Provided portable radio, fill (contained in a fill device), frequency, required data, callsign, batteries, and references.

STANDARD(S): Per the references.

PERFORMANCE STEPS:

1. Install the batteries.
2. Secure the battery case.
3. Install antenna.
4. Connect handset.
5. Apply power.
6. Load frequency and/or hop set data.
7. Select proper position for all switches.
8. Conduct operational check.
9. Conduct retrans, as required.
10. Perform operator level maintenance.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: Pvt

REFERENCE(S):

1. Applicable Technical Publications/Manuals
2. TM 11-5820-890-10-1, Operator Manual for SINGARS Ground Combat Net Radio
3. TM 11-5820-890-10-2, SINGARS ICOM Ground Radio
4. TM 11-5820-890-10-6, SINGARS ICOM Ground Radios Used With Automated Net Control Device (ANCD) AN/CYZ-10

TRAINING MATERIEL:

1. AN/CYZ-10 Digital Transfer Device
2. \* AN/PRC-119 Radio Set

3. Batteries, as applicable

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TASK: 0621.02.14 (CORE PLUS) OPERATE COMMUNICATION SECURITY EQUIPMENT

CONDITION(S): Provided a Communication Security Equipment with batteries, designated transmission system, and references.

STANDARD(S): Per the references.

PERFORMANCE STEPS:

1. Install batteries.
2. Connect to designated transmission system.
3. Apply power.
4. Load COMSEC.
5. Conduct operational check.
6. Provide security.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: Pvt

REFERENCE(S):

1. Applicable Technical Publications/Manuals
2. TM 11-5810-256-10-1, Sec Equip KY-57
3. TM 11-5810-256-10-2, Sec Group KY-57
4. TM 11-5810-256-12, Communications Security Equip TSEC/KY-57
5. TM 11-5810-256-OP, Comm Security Equip TSEC/KY-57
6. TM 11-5810-292-13, Comm Security Equip KOI-18/TSEC
7. TM 11-5810-312-12, Comm Sec Equip TSEC/KY-57 Install Kit

TRAINING MATERIEL:

1. Batteries, as applicable
  2. KY-57 Vinson/VHF/FM/UHF
  3. KY-57/TSEC
  4. KY-99
  5. \* TSEC/KY-57 Speech Security Equipment (VINSON)
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TASK: 0621.02.15 (CORE) ERECT AN HF TACTICAL ANTENNA

CONDITION(S): Provided an HF Tactical Antenna, designated site, and references.

STANDARD(S): Per the references.

PERFORMANCE STEPS:

1. Adhere to all safety precautions.
2. Select site.
3. Place the AB-1241.
4. Connect to the radio set.
5. Assemble mast.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: Pvt

REFERENCE(S):

1. Applicable Technical Publications/Manuals
2. TM 07508A-14, Inst Manual Antenna AS 2259/GR
3. TM 07748B-12/1, Radio Set AN/PRC-104
4. TM 07749/07743-12-1, Radio Set AN/GRC-193 AN/MRC-138

TRAINING MATERIEL:

1. AS-2259

ADMINISTRATIVE INSTRUCTIONS:

1. VEHICULAR INSTALLATION: The AS-2259/GR can be fitted to the MRC-138 by using the adapter MX-9313/GR on the vehicle whip mount. When using this method leave off two sections to keep the top of the antenna at the correct height.
2. The antenna should be located in the center of a clear area. Installation of the antenna near any tall metal object or under heavy foliage should be avoided. Under no circumstances should structures come in contact with the antenna.

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TASK: 0621.02.16 (CORE) ERECT A VHF ANTENNA

CONDITION(S): Provided an antennae, safety equipment, designated site, and references.

STANDARD(S): Per the references.

PERFORMANCE STEPS:

1. Adhere to all safety precautions.
2. Select site.

Appendix F to  
ENCLOSURE (6)

3. Raise mast assembly without feedcone assembly.
4. Adjust/Tighten all guide lines.
5. Lower mast assembly to the ground.
6. Attach feedcone assembly.
7. Raise mast.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: Pvt

REFERENCE(S):

1. Applicable Technical Publications/Manuals
2. TM 11-5985-357-13, Antenna Group OE-254/GRC

TRAINING MATERIEL:

1. \* OE-254

ADMINISTRATIVE INSTRUCTIONS: Ensure selected site is clear of obstructions such as power lines. If there are power lines near the site, the antenna must not be closer than twice the height of the antenna.

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TASK: 0621.02.17 (CORE) OPERATE A REMOTE CONTROL UNIT (RCU)

CONDITION(S): Provided a Remote Control Unit (RCU) with batteries, wire, and designated Radio System equipment, and references.

STANDARD(S): Per the references.

PERFORMANCE STEPS:

1. Install batteries.
2. Connect handset.
3. Connect remote control unit to radio with wireline.
4. Load frequencies and/or hop set data.
5. Load COMSEC.
6. Conduct an operational check.
7. Provide security.
8. Establish communication on the net.
9. Conduct or receive net updates, as required.
10. Troubleshoot problems.

11. Perform operator level preventive maintenance.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: Pvt

REFERENCE(S):

1. Applicable Technical Publications/Manuals
2. TM 11-5820-890-10-1, Operator Manual for SINCGARS Ground Combat Net Radio
3. TM 11-5820-890-10-8, SINCGARS

TRAINING MATERIEL:

1. AN/PRC-119A Radio Set
2. Batteries, as applicable
3. C-11561 SINCGARS Remote Control Unit
4. Field Wire

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TASK: 0621.02.18 (CORE) OPERATE RADIO SET CONTROL GROUP

CONDITION(S): Provided a Radio Set Control Group with batteries, wire, designated radio equipment, and references.

STANDARD(S): Per the references.

PERFORMANCE STEPS:

1. Install batteries.
2. Locate local control unit next to radio.
3. Connect local control unit at desired site.
4. Locate remote control unit at desired site.
5. Connect handset to remote control unit.
6. Connect two units together with a wireline.
7. Apply power.
8. Conduct operational check.
9. Establish communication on the net.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: Pvt

REFERENCE(S):

1. Applicable Technical Publications/Manuals

2. TM 11-5820-477-12, Radio Set Control Group AN/GRA-39

TRAINING MATERIEL:

1. \* AN/GRA Radio Set Control Group
2. Batteries, as applicable
3. Field Wire
4. Radio Equipment, as applicable

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TASK: 0621.02.19 (CORE) OPERATE AN HF PORTABLE RADIO SET

CONDITION(S): Provided an HF portable radio set, frequency, callsign, batteries, and references.

STANDARD(S): Per the references.

PERFORMANCE STEPS:

1. Adhere to all safety precautions.
2. Ground, as required.
3. Install batteries.
4. Attach antenna.
5. Attach handset.
6. Set mode, antenna, frequency, and volume controls.
7. Apply power.
8. Tune the radio.
9. Conduct operational check.
10. Establish communication on the net
11. Troubleshoot problems
12. Perform operator level maintenance

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: Pvt

REFERENCE(S):

1. Applicable Technical Publications/Manuals
2. TM 07748B-12/1, Radio Set AN/PRC-104
3. TM 08235-14/1, Battery Assy Case CY-7875/PRC-104



TRAINING MATERIEL:

1. \* AN/PRC-104 Radio Set
  2. \* Batteries, as applicable
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TASK: 0621.02.20 (CORE) OPERATE AN HF AN/MRC RADIO SET

CONDITION(S): Provided an HF AN/MRC Radio Set, frequency, designated site, hazardous warning signs, and references.

STANDARD(S): Per the references.

PERFORMANCE STEPS:

1. Adhere to all safety precautions.
2. Ground the radio set.
3. Connect cables.
4. Install appropriate antenna.
5. Connect handset.
6. Start vehicle.
7. Apply power to radio.
8. Set frequency.
9. Conduct operational check.
10. Establish communication on the net.
11. Troubleshoot problems.
12. Perform operator level preventive maintenance.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: Pvt

REFERENCE(S):

1. Applicable Technical Publications/Manuals
2. TM 07749/07743-12-1, Radio Set AN/GRC-193 AN/MRC-138
3. TM 07749/07743-12-2, Amplifier-Converter AM-6879/URC
4. TM 2320-10/6A, Truck Utility 1/4 Ton 4X4

TRAINING MATERIEL:

1. \* AN/MRC-138A Radio Set

ADMINISTRATIVE INSTRUCTIONS: Drivers license (M998) required.

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TASK: 0621.02.21 (CORE) OPERATE A PORTABLE UHF RADIO SET

CONDITION(S): Provided a portable UHF radio set, batteries, frequency, callsign, and references.

STANDARD(S): Per the references.

PERFORMANCE STEPS:

1. Install batteries.
2. Attach appropriate antenna.
3. Attach handset.
4. Apply power.
5. Manually select frequency.
6. Load preset channels.
7. Select a preset channel.
8. Conduct operational check.
9. Establish communication on the net.
10. Troubleshoot problems.
11. Perform operator level preventive maintenance.

INITIAL TRAINING SETTING: FLC Sustainment: 12 Req By: Pvt

REFERENCE(S):

1. Applicable Technical Publications/Manuals
2. TO 31R2-2PRC-113-1-1, Supplemental Operators Manual Radio Set, AN/PRC-113(V)3
3. TO 31R2-2URC-63, REL/TRANS RT-1319 URC
4. TO 31R2-PRC-113-6WC, Radio Set, AN/PRC-113(V)3

TRAINING MATERIEL:

1. AN/PRC-113 (V) 3 Radio Set
  2. Batteries, as applicable
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TASK: 0621.02.22 (CORE PLUS) OPERATE TACTICAL FACSIMILE SET

CONDITION(S): Provided a Tactical Facsimile, power source, carbon paper, transmission path, and references.

STANDARD(S): Per the references.

PERFORMANCE STEPS:

1. Connect signal cable to AN/UXC-7A.
2. Connect encryption device to AN/UXC-7A.
3. Ground equipment.
4. Connect power cable.
5. Apply power.
6. Perform self-test.
7. Set switches for on-line operation.
8. Send/Receive traffic.
9. Troubleshoot as required.
10. Reinitialize, as required.
11. Perform operator level preventive maintenance.

INITIAL TRAINING SETTING: MOJT Sustainment: 12 Req By: Pvt

REFERENCE(S):

1. Applicable Technical Publications/Manuals
2. TM 09955A-10/1, Facsimile Set Tact AN/UXC-7A or B
3. TM 11-5810-256-12, Communications Security Equip TSEC/KY-57
4. TM 9406-15, Grounding Procedures

TRAINING MATERIEL:

1. AN/UXC-7A Tactical Facsimile
2. Carbon Paper
3. Power Source, as applicable

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TASK: 0621.02.23 (CORE PLUS) OPERATE A DIGITAL COMMUNICATIONS TERMINAL

CONDITION(S): Provided a Digital Communications Terminal, transmission device, batteries, and references.

STANDARD(S): Per the references.

PERFORMANCE STEPS:

1. Install power source.
2. Apply power.
3. Load application program.
4. Connect cables to equipment.
5. Run application program.
6. Perform map functions.
7. Perform message function.
8. Transmit message/map.
9. Receive message/map.
10. Run self test.
11. Purge current applications program.
12. Perform purge functions.
13. Perform operator level preventive maintenance.

INITIAL TRAINING SETTING: MOJT Sustainment: 12 Req By: Pvt

REFERENCE(S):

1. Applicable Technical Publications/Manuals
2. TM 08487A-12&P/1, Digital Comm Terminal AN/PSC-2
3. TM 08487A-14/1A, Digital Comm Terminal Pocket Checklist
4. TM 08487C-12&P/1, Digital Comm Terminal AN/PSC-2
5. TM 11-5895-1325-12&P, Digital Comm Terminal AN/PSC-2A

TRAINING MATERIEL:

1. \* AN/PSC-2
2. \* Batteries, as applicable

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TASK: 0621.02.24 (CORE PLUS) OPERATE A UHF MANPACK TACTICAL SATELLITE TERMINAL

CONDITION(S): Provided a UHF Manpack Tactical Satellite Terminal, batteries, frequencies, callsign, cryptographic hardware and software, a compass, satellite location, and references.

STANDARD(S): To prepare UHF Manpack Tactical Satellite Terminal for operation, per the references.

PERFORMANCE STEPS:

1. Install batteries.
2. Attach appropriate antenna.
3. Site antenna.
4. Apply power.
5. Configure radio for operation.
6. Load COMSEC.
7. Conduct operation check.
8. Conduct UHF to VHF retrans, as required.
9. Establish communication on the net.
10. Troubleshoot problems.
11. Perform operator level preventive maintenance.

INITIAL TRAINING SETTING: MOJT Sustainment: 12 Req By: Pvt

REFERENCE(S):

1. Applicable Technical Publications/Manuals
2. TM 097726A-13, LMM-9A/TSEC KY-99
3. TM 11-5810-256-12, Communications Security Equip TSEC/KY-57
4. TM 11-5895-10/1, Radio Set AN/PSC-3
5. TM 5820-12&P/1, AN/PSC-5
6. TM 5895-10/1, Rad Set AN/PSC-3

TRAINING MATERIEL:

1. AN/PSC-3
2. AN/PSC-5 Satellite Communications Radio System
3. Batteries, as applicable
4. Compass
5. UHF Manpack Tactical Satellite Terminal

TASK: 0621.02.25 (CORE PLUS) CONSTRUCT FIELD EXPEDIENT ANTENNA

CONDITION(S): Provided locally available materials, designated type of antenna, assigned radio, frequency, and references.

STANDARD(S): To provide field expedient antenna for use, per the references.

PERFORMANCE STEPS:

1. Adhere to all safety precautions.
2. Determine length of antenna.
3. Gather required materials.
4. Construct the antenna.
5. Restore radio communications.

INITIAL TRAINING SETTING: MOJT Sustainment: 12 Req By: Pvt

REFERENCE(S):

1. Applicable Technical Publications/Manuals
2. FM 24-18, Tactical Single Channel Radio Communications Techniques
3. FMFRP 3-34, Field Antenna Handbook
4. TM 9406-15, Grounding Procedures

ADMINISTRATIVE INSTRUCTIONS: This task applies to constructing field expedients for the following antennae:

Very High Frequency (VHF) ground plane.  
Vertical Whip.  
Long wire antenna.  
Vertical half rhombic.  
Dipole.  
Inverted L.  
Inverted V.  
Horizontal V.  
Sloping V.  
Ground plane.

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TASK: 0621.02.26 (CORE) OPERATE M SERIES VEHICLE ON ROAD

CONDITION(S): Provided with an operational M Series vehicle and references.

STANDARD(S): To safely meet operational requirements with no injury to personnel or damage to equipment, per the references.

PERFORMANCE STEPS:

1. Perform PMCS.

2. Prepare operational forms and records.
3. Start the engine.
4. Select transmission and transfer case gear.
5. Place vehicle in motion for forward or reverse movement.
6. Comply with traffic regulations.
7. Stop the vehicle.
8. Stop the engine.
9. Complete operational forms and records.

INITIAL TRAINING SETTING: FLC Sustainment: 6 Req By: Pvt

REFERENCE(S):

1. FM 21-305, Manual for Wheeled Vehicle Driver
2. FM 55-30, Army Motor Transport Units and Operations
3. FMFM 4-9, Motor Transport
4. TM 4700-15/1H, Marine Corps Ground Equipment Record Procedures
5. TM 9-2320-260-10, Operator Manual for Trk 5 Ton, 6x6 M809 Series
6. TM 9-2320-272-10, Operator Manual for M939 Series Vehicle
7. TM 9-2320-280-10, Operator Manual for the 1 1/2 Ton M998

TRAINING MATERIEL:

1. M Series Vehicle

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TASK: 0621.02.27 (CORE) OPERATE M SERIES VEHICLE OFF ROAD

CONDITION(S): Provided with an operational M Series vehicle and references.

STANDARD(S): To safely meet operational requirements with no injury to personnel or damage to equipment, per the references.

PERFORMANCE STEPS:

1. Perform Preventive Maintenance Checks and Services.
2. Prepare operational forms and records.
3. Start the engine.
4. Select transmission and transfer case gear.

5. Place vehicle in motion for forward or reverse movement.
6. Stop vehicle.
7. Stop engine.
8. Complete operational forms and records.

INITIAL TRAINING SETTING: FLC Sustainment: 6 Req By: Pvt

REFERENCE(S):

1. FM 21-305, Manual for Wheeled Vehicle Driver
2. FM 55-30, Army Motor Transport Units and Operations
3. FMFM 4-9, Motor Transport
4. TM 4700-15/1H, Marine Corps Ground Equipment Record Procedures
5. TM 9-2320-260-10, Operator Manual for Trk 5 Ton, 6x6 M809 Series
6. TM 9-2320-272-10, Operator Manual for M939 Series Vehicle
7. TM 9-2320-280-10, Operator Manual for the 1 1/2 Ton M998

TRAINING MATERIEL:

1. \* M Series Vehicle

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TASK: 0621.02.28 (CORE) OPERATE M SERIES VEHICLE IN ADMINISTRATIVE MOVEMENT

CONDITION(S): Provided with an operational M Series vehicle and references.

STANDARD(S): To safely meet operational requirements with no injury to personnel or damage to equipment, per the references.

PERFORMANCE STEPS:

1. Maintain correct vehicle speed.
2. Maintain correct vehicle interval.
3. Observe safety precautions.
4. Perform at-halt PMCS on equipment.

INITIAL TRAINING SETTING: FLC Sustainment: 6 Req By: Pvt

REFERENCE(S):

1. FM 21-305, Manual for Wheeled Vehicle Driver
2. FMFM 4-9, Motor Transport



3. TM 9-2320-260-10, Operator Manual for Trk 5 Ton, 6x6 M809 Series
4. TM 9-2320-272-10, Operator Manual for M939 Series Vehicle
5. TM 9-2320-280-10, Operator Manual for the 1 1/2 Ton M998
6. TM 9-2330-202-14&P, Trailer, Cargo 3/4 Ton, 2 Wheel
7. TM 9-2330-213-14&P, M103 Chassis, Trailer, 1 1/2 Ton, 2-Wheel
8. TM 9-2330-247-14&P, M353 Chassis, Trailer, 3 1/2 Ton, 2-Wheel
9. TM 9-2330-267-14&P, M149A/A1/A2 Trailer Tank Water, 1 1/2 Ton, 2-Wheel

TRAINING MATERIEL:

1. \* M Series Vehicle
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TASK: 0621.02.29 (CORE) OPERATE M SERIES VEHICLE IN LIMITED VISION CONDITIONS

CONDITION(S): Provided with an operational M Series vehicle and references.

STANDARD(S): To safely meet operational requirements with no injury to personnel or damage to equipment, per the references.

PERFORMANCE STEPS:

1. Operate vehicle at night with service lights.
2. Operate in blackout conditions using blackout lights.

INITIAL TRAINING SETTING: FLC Sustainment: 6 Req By: Pvt

REFERENCE(S):

1. FM 21-305, Manual for Wheeled Vehicle Driver
2. FM 55-30, Army Motor Transport Units and Operations
3. FMFM 4-9, Motor Transport
4. TM 9-2320-260-10, Operator Manual for Trk 5 Ton, 6x6 M809 Series
5. TM 9-2320-272-10, Operator Manual for M939 Series Vehicle
6. TM 9-2320-280-10, Operator Manual for the 1 1/2 Ton M998

TRAINING MATERIEL:

1. \* M Series Vehicle
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**TASK:** 0621.02.30 (CORE) PERFORM PREVENTIVE MAINTENANCE CHECKS AND SERVICES (PMCS) ON M SERIES VEHICLES

**CONDITION(S):** Provided with an operational M Series vehicle, required tools, equipment, and references.

**STANDARD(S):** To maintain operability and identify corrective maintenance actions, per the references.

**PERFORMANCE STEPS:**

1. Perform before operations PMCS.
2. Perform during operations PMCS.
3. Perform after operation PMCS.
4. Perform weekly PMCS.
5. Perform monthly PMCS.
6. Maintain basic issue items.
7. Identify hazardous waste for disposal.
8. Perform PMCS on weapons mount.

**INITIAL TRAINING SETTING:** FLC Sustainment: 6 Req By: Pvt

**REFERENCE(S):**

1. MCO 5100.25, Hazardous Material Information System
2. MCO P4790.2, MIMMS Field Procedures Manual
3. TM 1005-13&P, Maintenance for Weapons Mount to Tactical Vehicles
4. TM 4700-15/1H, Marine Corps Ground Equipment Record Procedures
5. TM 9-2320-260-10, Operator Manual for Trk 5 Ton, 6x6 M809 Series
6. TM 9-2320-272-10, Operator Manual for M939 Series Vehicle
7. TM 9-2320-280-10, Operator Manual for the 1 1/2 Ton M998
8. TM 9-2330-202-14&P, Trailer, Cargo 3/4 Ton, 2 Wheel
9. TM 9-2330-213-14&P, M103 Chassis, Trailer, 1 1/2 Ton, 2-Wheel
10. TM 9-2330-247-14&P, M353 Chassis, Trailer, 3 1/2 Ton, 2-Wheel
11. TM 9-2330-267-14&P, M149A/A1/A2 Trailer Tank Water, 1 1/2 Ton, 2-Wheel

**TRAINING MATERIEL:**

1. \* M Series Vehicle

2. \* Tools, as applicable

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TASK: 0621.02.31 (CORE PLUS) OPERATE M SERIES VEHICLE IN UNUSUAL CONDITIONS

CONDITION(S): Provided with an operational M Series vehicle and references.

STANDARD(S): To safely meet operational requirements with no injury to personnel or damage to equipment, per the references.

PERFORMANCE STEPS:

1. Operate the vehicle in extreme cold.
2. Operate the vehicle in snow.
3. Operate the vehicle in dusty, sandy areas.
4. Operate the vehicle under rainy, humid conditions.
5. Operate the vehicle in deep mud.
6. Operate the vehicle in extreme heat.

INITIAL TRAINING SETTING: MOJT Sustainment: 6 Req By: Pvt

REFERENCE(S):

1. FM 21-305, Manual for Wheeled Vehicle Driver
2. FM 55-30, Army Motor Transport Units and Operations
3. FMFM 4-9, Motor Transport
4. TM 9-2320-260-10, Operator Manual for Trk 5 Ton, 6x6 M809 Series
5. TM 9-2320-272-10, Operator Manual for M939 Series Vehicle
6. TM 9-2320-280-10, Operator Manual for the 1 1/2 Ton M998

TRAINING MATERIEL:

1. \* M Series Vehicle

DUTY AREA 03 - SUPERVISE

TASK: 0621.03.01 (CORE PLUS) DIRECT OPERATION OF SINGLE CHANNEL RADIO PLAN

CONDITION(S): Provided single channel radio plan, radio equipment, personnel, and references.

STANDARD(S): To ensure reliable, secure, fast, and flexible communication, per the references.

PERFORMANCE STEPS:

1. Direct radio operations.
2. Direct operation of antenna hill.
3. Direct troubleshooting procedures.

INITIAL TRAINING SETTING: MOJT Sustainment: 12 Req By: Cpl

REFERENCE(S):

1. ACP-125, Communications Instruction for Radio Telephone Procedures
2. ACP-131, Communications Instruction - Operating Procedures
3. MCWP 6-22, Communication and Information Systems

TRAINING MATERIEL:

1. Radio Equipment, as applicable

MCO 1510.118A  
DRAFT

DUTY AREA 04 - MAINTENANCE

Appendix F to  
ENCLOSURE (6)

DUTY AREA 05 - TRAINING